

FIG.1

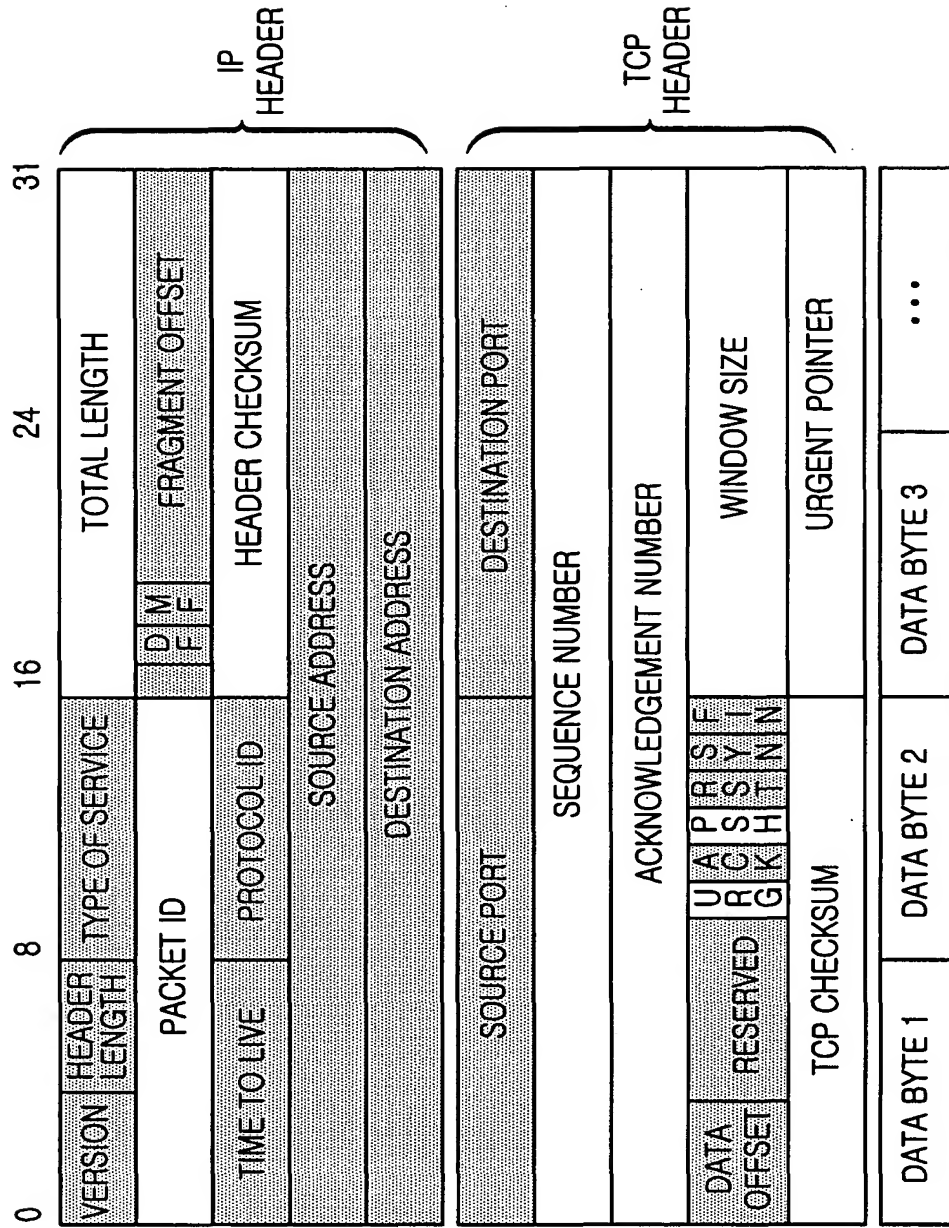


FIG.2

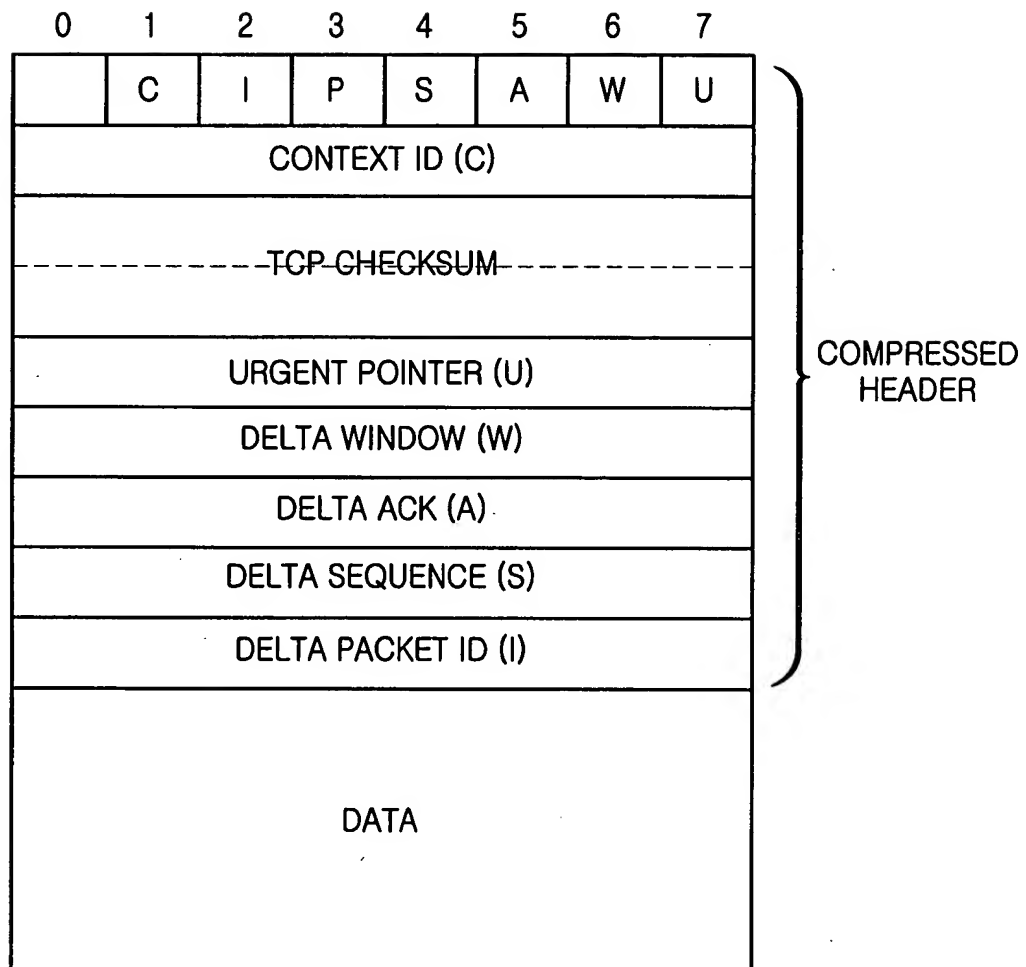


FIG.3

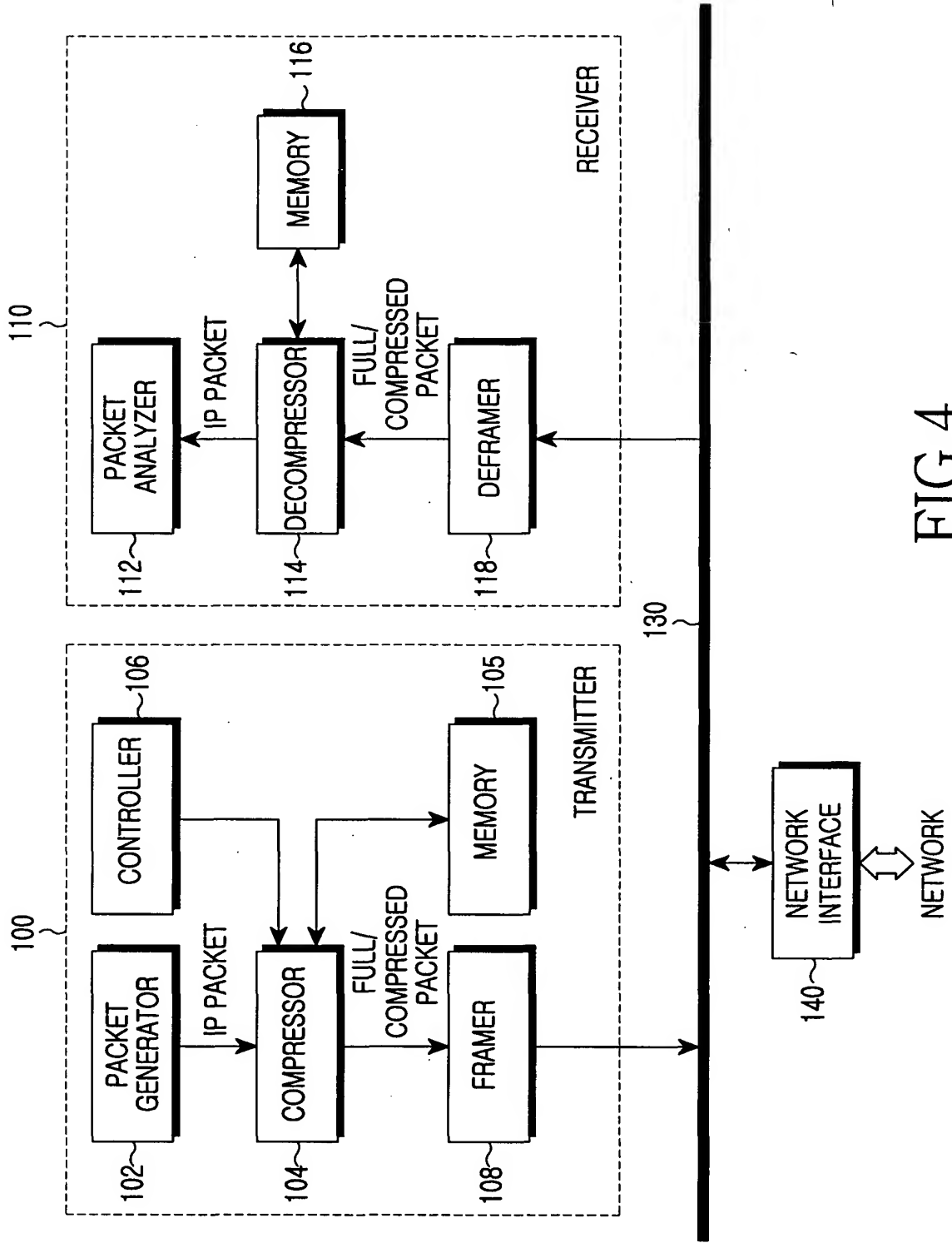


FIG. 4

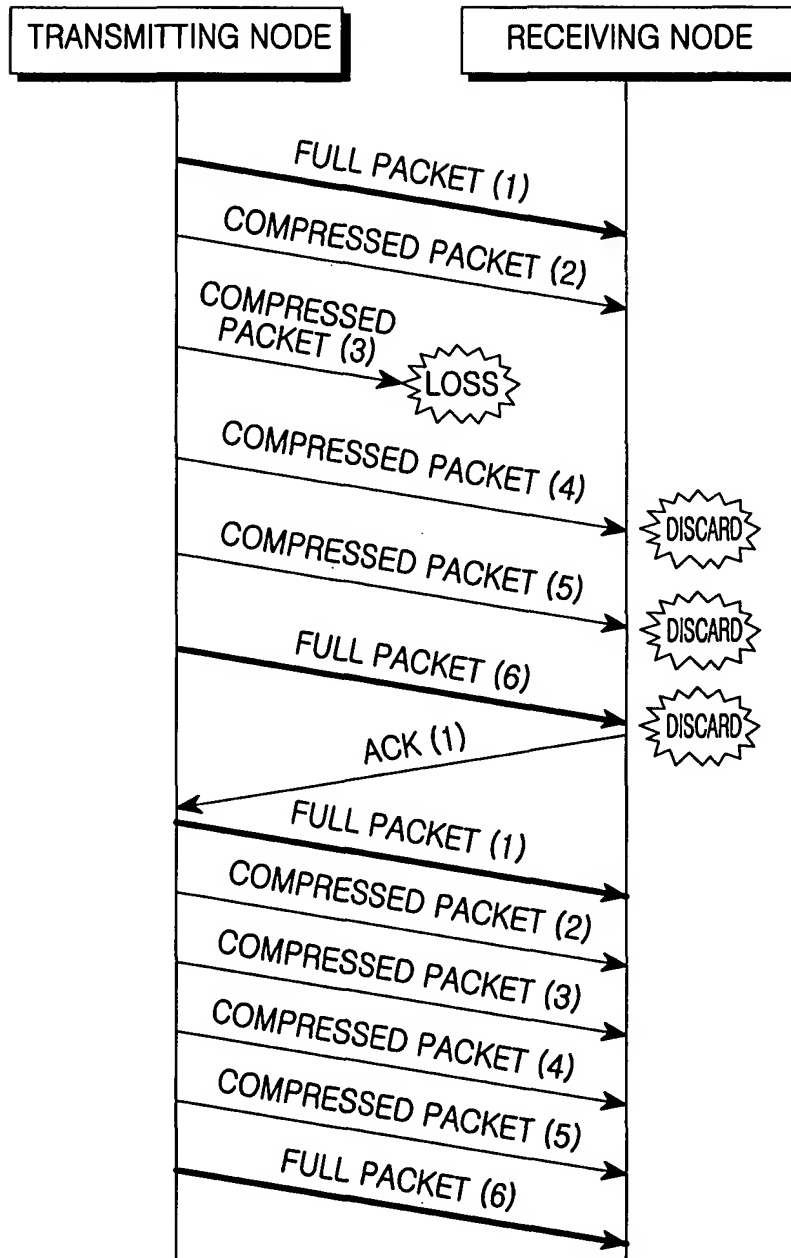


FIG.5

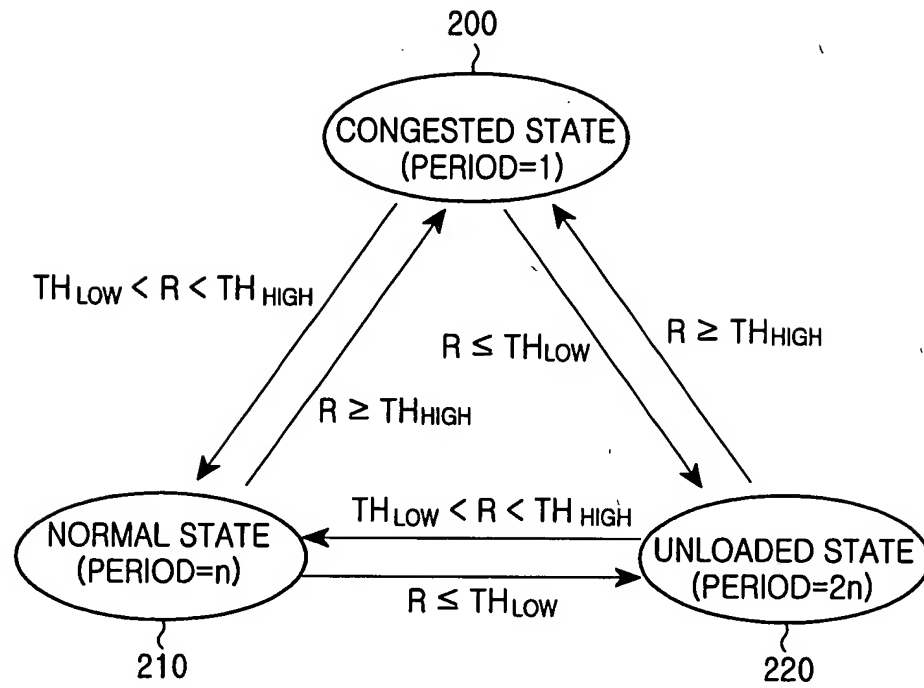


FIG.6

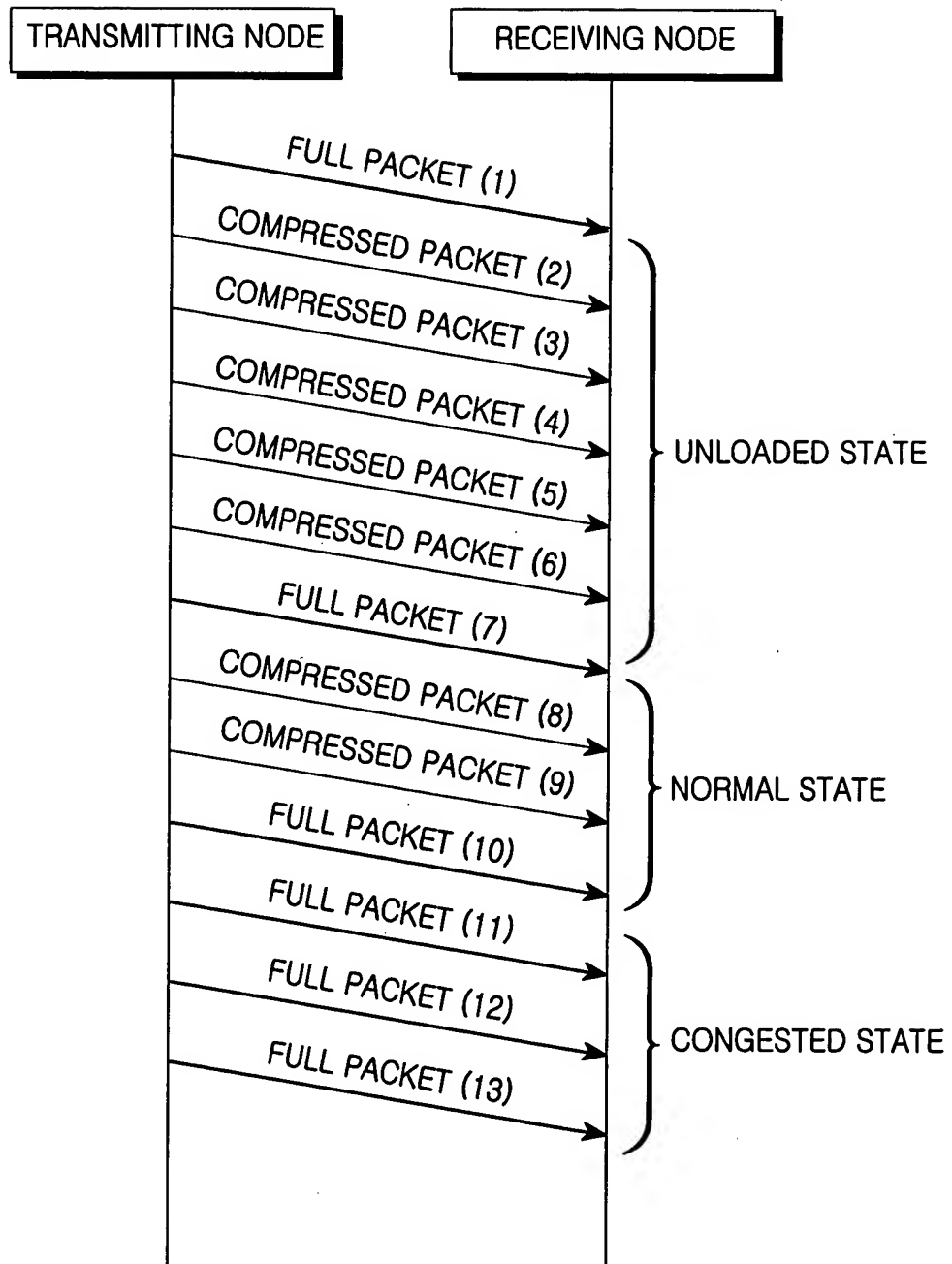


FIG.7

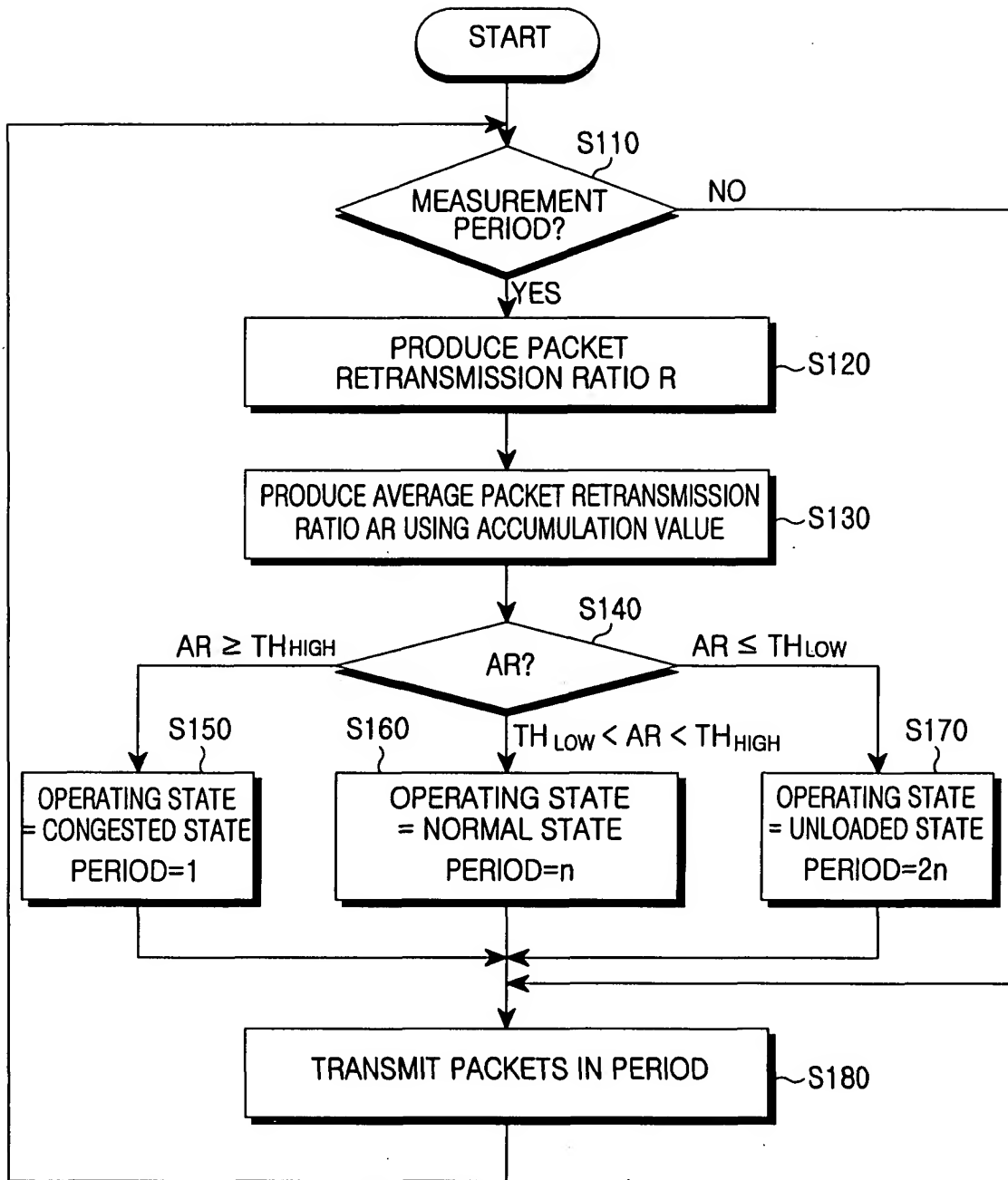


FIG.8



```

#define ALPHA 0.75
#define THHIGH 0.10
#define THLOW 0.05

// PRODUCE PACKET RETRANSMISSION RATIO (NUMBER OF RETRANSMITTED
// PACKETS/NUMBER OF TRANSMITTED PACKETS) EVERY 5 SECONDS.
(S120) R = RetransPkts / SentPkts ;

// PRODUCE AVERAGE PACKET RETRANSMISSION RATIO USING
// LOW-PASS-FILTER FORMULA.
(S130) AR = (1-ALPHA)*AR
        +ALPHA * R;

// CLASSIFY THREE OPERATING STATES ACCORDING TO PACKET
// RETRANSMISSION RATIO, AND DECIDE WHEN FULL PACKET MUST BE
// TRANSMITTED ACCORDING TO EACH OPERATING STATE
if (AR >= THHIGH) {
(S150)   State = Congested;
        Period = 1;
} else if (AvgRetransRate <= THLOW) {
(S170)   State =unloaded;
        Period = 2n;
} else
(S160)   State = Loaded;
        Period =n;
}

// TRANSMIT FULL PACKET IN PERIOD.
(S180) for (i=1; i<=Period; i++) {
        if (i == Period)
            send full packets;
        else
            send compressed packets;
}

```

FIG.9